

## Abstract

The invention relates to a magnetostriction control alloy sheet advantageously used as a high resolution shadow mask having a low coefficient of thermal expansion, superior magnetic properties and a high Young's modulus after a blackening process, a manufacturing process for the same, and a part for a color Braun tube such as a shadow mask. The magnetostriction control alloy sheet comprises C at 0.01 wt. % or less, Ni at 30 to 36 wt. %, Co at 1 to 5.0 wt. %, and Cr at 0.1 to 2 wt. %, the remainder Fe and unavoidable impurities, and having a magnetostriction  $\lambda$  after the softening and annealing of  $(-15 \times 10^{-6})$  to  $(25 \times 10^{-6})$ .

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